

Charleston Harbor to Savannah River

Charts 11480, 11521, 11513

- (1) This chapter describes the coastline from Charleston Harbor to Savannah River. The coast, low and timbered, trends in a southwesterly direction for 65 miles and is broken by St. Helena, Port Royal, and Calibogue Sounds, and by numerous inlets from which there is access to the interior by way of the rivers emptying into them. Shoal water extends 3 to 8 miles offshore.
- (2) Numerous fish havens, some marked by private buoys, are from 3 to 12 miles off the coasts of South Carolina and Georgia.
- (3) This section of the coast, due to its low relief, presents no good radar targets except for the structure of Savannah Light.
- (4) Included in this chapter are the deepwater ports of Savannah and Port Royal; the fishing and small-craft port of Beaufort, S.C.; Stono, and North Edisto Rivers; the tributary waters of the various sounds of which South Edisto, Coosaw, Beaufort, Broad, and Savannah Rivers are the more important; and several small towns along these waterways.
- (5) The section of the Intracoastal Waterway from Charleston to Savannah is described in chapter 12.

Caution

- (6) The areas generally to the east and southeast of Charleston Harbor are used extensively by the U.S. Navy and other military services to conduct various types of surface, subsurface, and aircraft training exercises. The Commander, Submarine Group Six, Charleston, S.C., has cognizance of the operating areas through the Charleston Operating Area Coordinator (COAC).

COLREGS Demarcation Lines

- (7) The lines established for this part of the coast are described in **80.712 through 80.715**, chapter 2.

Weather

- (8) A major winter storm track extending east-northeastward from the Gulf of Mexico crosses

this coastline. Often these extratropical systems are in a developing stage and intensify after crossing the Gulf Stream in the Atlantic. Therefore, gale force winds are infrequent in these coastal waters; they blow 1 to 3 percent of the time from November through March. Maximum winds for most months are in the 40- to 50-knot range generated by extratropical or tropical storms, and cold fronts in spring. Steep waves are infrequent, but waves of 8 feet (2.4 m) or more can be expected about 15 to 30 percent of the time from November through March. Maximum heights are in the 18- to 25-foot (5 to 8 m) range.

- (9) Tropical cyclones are most likely from June through October with a peak threat during September and October. About one to two cyclones threaten this coast in an average year. Many of these storms have recurved and some have traveled across the Gulf states and weakened. However heavy rains, storm tides, strong winds, high waves and even tornadoes are a possibility when a tropical cyclone is near.

- (10) Coastal fog can plague the mariner, particularly in late winter and spring when warm air moves in over the still cool, coastal waters. Beyond 50 miles (93 km) the warmer waters of the Gulf Stream tend to inhibit sea fog. In those areas, a midwinter cold air outbreak could produce fog. Visibilities are also restricted in rain and showers.

Charts 11522, 11521

- (11) **Lighthouse Inlet** (32°41.2'N., 79°53.0'W.), between **Morris Island** and **Folly Island** has no channel across the bar; entrance should be attempted only with local knowledge on a rising tide with a smooth sea. In June 1983, the reported controlling depth over the bar and upstream to **Secessionville** was 3 feet; the inlet is unmarked and used only by local fishermen. Small craft pass into Charleston Harbor by way of **Lighthouse Creek** and also into numerous sloughs north of Folly Island. **Folly Beach**, an amusement park on Folly Island, is connected by highway with Charleston. The buildings and lights are prominent from seaward.

- (12) **Stono Inlet**, 10 miles southwestward of Charleston Harbor entrance, is entered over a shifting bar between Folly Island and **Kiawah Island**. A lighted gong buoy is southward of the entrance. The inlet is subject to continual change and should not be attempted without local knowledge. The entrance buoys are not charted, because they are frequently shifted in position to mark the best water. Local fishermen use the inlet.
- (13) A fish haven, marked by a buoy and covered 15 feet, is in about 32°29.0'N., 80°00.3'W., about 5.6 miles southwestward of the drill minefield.
- (14) **Stono River**, which joins Stono Inlet from northward, is of little commercial importance except in its upper reach above **Elliott Cut**, where it forms part of the Intracoastal Waterway. In June 1983, the reported controlling depth from inside the inlet bar for about 12 miles to the highway bridge was 11 feet, thence 7 feet to a junction with the Intracoastal Waterway at Elliott Cut. Vessels usually enter the river by way of the waterway from Charleston. In the summer, numerous pleasure craft use Stono River and Folly River to reach Folly Beach. The highway bridge about a mile below Elliott Cut has a swing span with a clearance of 8 feet. (See **117.1 through 117.49**, chapter 2, for drawbridge regulations.) An overhead power cable about 0.95 mile below the bridge has a clearance of 91 feet at the center of the river.
- (15) Marinas on the west side of Stono River at the highway bridge provide berths with electricity, gasoline, diesel fuel, water, ice, marine supplies, pump-out station and wet storage. Engine repairs can be made.
- (16) **Folly River** flows into Stono Inlet from the northeast and **Kiawah River** from the west. Both are relatively unimportant. Folly River is used by pleasure craft and local fishermen desiring to reach Folly Beach. A dredged channel, marked by lighted and unlighted buoys, leads about 2.3 miles upriver from the junction with Stono River at **Bird Key**. In October 2001, the controlling depth was 8.5 feet in the south half and 3.9 feet in the north half of the channel to Buoy 13; thence in 1999-October 2001, 1 foot to the end of the project. The dredged channel between Buoys 7 to 15 is subject to continual change. Local knowledge is advised when transiting the area. On the southeast side of the river about 2 miles above the entrance, a seafood plant has diesel fuel, water, ice, and marine supplies. State Route 171 highway bridge about 3.1 miles above the entrance has a fixed span with a clearance of 10 feet. An overhead power cable close eastward of the bridge has a clearance of 46 feet. **Folly Creek** enters Folly River from the north about 2.7 miles above the mouth. State Route 171 highway bridge about 2.9 miles above the creek mouth has a fixed span with a clearance of 10 feet. An overhead power cable at the bridge has a clearance of 40 feet and another overhead power cable 0.4 mile above the bridge has a clearance of 48 feet.
- (17) **North Edisto River**, about 10 miles southwestward of Stono Inlet and 20 miles southwestward of Charleston Harbor entrance, is of little commercial importance and rarely used. Shoals extend offshore from the entrance as much as 3 miles and form a shifting bar. Flats, which bare at low water and are continually changing in character, are on both sides of the entrance; caution is advised. In April 1991, the reported controlling depth over the bar was 10 feet. The entrance is marked by a lighted whistle buoy, and the channel by a 314° lighted range and by buoys which are moved, when practicable, to indicate the best water. The entrance is well defined by breakers. A water tank about 1.7 miles northeastward of the entrance is prominent.
- (18) Two tributaries of North Edisto River, **Wadmalaw River** from eastward and **Dawho River** from westward, are part of the Intracoastal Waterway. **Bohicket Creek** entrance is about 2.5 miles above the entrance to North Edisto River. **Rockville**, a town about 1.1 miles above the mouth of Bohicket Creek, has several piers and wharves with 5 to 11 feet of water alongside at which fresh water can be obtained. A marina at Rockville has berths with electricity and 16 feet reported alongside; gasoline, diesel fuel, water, ice, marine supplies, and a 3-ton lift are available. Hull, engine, and radio repairs are available. In 1980, the centerline controlling depth was 9 feet up the creek to Rockville. **Adams Creek**, west of Rockville, has several shrimp-boat piers and wharves with depths of 6 to 9 feet alongside. A boatyard close to the piers, has a marine railway that can handle craft to 75 feet for hull and engine repairs. A 60-ton mobile lift can handle craft to 55 feet for hull and engine repairs. A marina, about 3.3 miles above the mouth of Bohicket Creek, has various services and a reported centerline controlling depth of 6 feet in 1991. **Steamboat Creek** entrance, 6 miles above North Edisto River entrance, is marked by a light and daybeacons.
- (19) The mean range of tide in North Edisto River entrance is 5.8 feet. On the bar the direction of the current is generally across the channel. The flood current sets about westward, and the ebb eastward; both have considerable velocity. Inside the bar, in the channel between the breakers, the ebb current is to be guarded against, especially when it sets across the north breakers. Predicted currents for the North Edisto River entrance may be obtained from the Tidal Current Tables.

Charts 11517, 11521, 11513

(20) The entrance to **St. Helena Sound** is 7 miles wide between **Bay Point**, the southern extremity of **Edisto Island**, on the northeast and **Hunting Island** on the southwest. The 132-foot Hunting Island Light (32°22'30"N., 80°26'18"W.), and the elevated tank on the northern part of Hunting Island make good landmarks. There are several channels through the shoals which extend about 6 miles seaward from the sound entrance. In June 1983, the buoyed channel had a reported depth of 15 feet; caution is advised. The mean range of tide on the bar and in the entrance to the sound is about 6 feet. In 1973, a survey revealed depths of 1 foot to 14 feet less than those charted across the entrance to St. Helena Sound. Caution is advised in navigating this area. In November 1992, a partially submerged wreck was 2.0 miles northeast of South Edisto River Approach Lighted Buoy A in about 32°26.0'N., 80°16.0'W.

(21) Most important of the several navigable rivers emptying into the sound are South Edisto, Ashepoo, Coosaw, Morgan, and Harbor Rivers; the first three are links in the route of the Intracoastal Waterway.

Northern Right Whales

(22) Northern right whales have been sighted as far north as Savannah River in the calving season, generally, December through March. In March and April, right whales accompanied by calves migrate northward from the critical habitat, often within 20 miles of the coast to summer feeding grounds off New England. (See Northern right whales, indexed as such, chapter 3.) It is illegal to approach closer than 500 yards of any right whale. (See **50 CFR 222.32**, chapter 2 for limits, regulations, and exceptions.)

COLREGS Demarcation Lines

(23) The lines established for St. Helena Sound are described in **80.712**, chapter 2.

(24) **South Edisto River**, which empties into St. Helena Sound immediately westward of Bay Point, is of little commercial importance. The approach to the river is marked by buoys. The river above its junction with **Dawho River**, about 18 miles above Bay Point, is known as **Edisto River**. **Big Bay Creek** is unmarked and empties into the east side of South Edisto River just above Bay Point. It has been reported that small craft have run aground at night when making Big Bay Creek from the northward by using the street and house lights on **Edisto Beach** as guides; extreme caution is advised.

(25) **Edisto Beach State Park** is about 2 miles north-eastward of Bay Point. A marked channel into South

Edisto River, about 3 miles southeastward of Bay Point, has depths of 12 to 16 feet over the ocean bar.

(26) An unmarked fish haven is on the northeast side of South Edisto River about 4.5 miles above Bay Point in about 32°32.3'N., 80°23.3'W.

(27) The Intracoastal Waterway leads through South Edisto River from landcuts at **Fenwick Cut** and **Watts Cut**, about 5.3 miles and 11.3 miles above Bay Point, respectively. This section of the river, between Fenwick Cut and Watts Cut, is marked in accordance with Intracoastal Waterway markings. In June 1983, the reported controlling depth from Bay Point to the junction with the Intracoastal Waterway at Fenwick Cut was 10 feet, and from Watts Cut to **Willtown Bluff**, about 20 miles above Bay Point, the reported controlling depth was 10 feet.

(28) The river is usually entered from the Intracoastal Waterway; the entrance from the ocean is rarely used. The mean range of tide is about 6 feet in the lower part of the river. Currents at the entrance have a velocity of about 2 knots; predictions may be obtained from the Tidal Current Tables.

(29) A draft of about 3 feet can be taken for about 8 miles above Willtown Bluff to **Jacksonboro**.

(30) **Ashepoo River**, about 4.5 miles westward of Bay Point, flows into St. Helena Sound from northward on the west side of **Otter Islands**. A highway bridge over the river, 13 miles above the mouth, has a fixed span with a clearance of 20 feet. The side piers of a former swing bridge adjacent westward of the fixed bridge are used as fishing piers. An overhead power cable just westward of the bridge has a clearance of 63 feet, and another overhead power cable 4 miles above the bridge has a clearance of 84 feet. Mariners are advised to navigate with caution, because depths vary greatly in the river.

(31) **Coosaw River**, which enters the head of St. Helena Sound from westward, is important only as a link in the Intracoastal Waterway. The river channel is irregular in depth, partly because of the phosphate dredges which once operated here.

Chart 11519

(32) **Combahee River**, 3 miles above the mouth of the Coosaw River, had a reported controlling depth of 11.4 feet, in October 2001, for a distance of about 9 miles above the entrance. The river is navigable for craft drawing up to 5 feet to U.S. Route 17 highway bridge 20 miles above the entrance. The highway bridge has a fixed span with a clearance of 14 feet. The mean range of tide is 6.4 feet at Fields Point, about 5.6 miles above

the mouth of the river, and 4.4 feet at the highway bridge.

- (33) **New Chehaw River**, on the north side of the entrance to Combahee River, is unimportant and has no traffic. **Old Chehaw River** enters the Combahee River from northward about 2 miles above New Chehaw River. The town of **Wiggins** is about a mile above the junction of Old and New Chehaw Rivers.

- (34) **Bull River** enters Coosaw River from the northward about 5 miles above the latter's mouth. Two miles above its mouth, Bull River divides into **Williman Creek** and **Wimbee Creek**, which pass north and south, respectively, of **Williman Islands** and rejoin 4.5 miles above the lower junction. The upper section of Williman Creek where it rejoins Wimbee Creek is known as **Schooner Channel**.

- (35) **Chisolm** is a small town on the south bank of Wimbee Creek about 1.5 miles above the lower junction with Williman Creek. In June 1983, the reported controlling depth to Chisolm was 8 feet. A section of a former railroad bridge, now used as a fishing pier, is on the west side of Wimbee Creek, 1 mile above the upper junction with Schooner Channel. An overhead power cable with a clearance of 80 feet crosses the creek at this point. In June 1983, the reported controlling depth was 8 feet to the fishing pier by way of Bull River, Williman Creek, and Schooner Channel; between Chisolm and the upper junction with Schooner Channel, Wimbee Creek is nearly dry in places at low water.

- (36) **Parrot Creek**, which enters Coosaw River on the south side directly opposite Bull River, is a 2-mile link between Coosaw and Morgan Rivers. The reported controlling depth through the creek was 11 feet in 1994-March 1999. Daybeacons mark the north entrance. In February 1999, shoaling to bare was reported just NNW of Daybeacon 2 in the N entrance to Parrot Creek.

- (37) **Lucy Point Creek**, about 2 miles westward of Parrot Creek, also connects Coosaw and Morgan Rivers. In 1994-March 1999, the reported controlling depth in the creek was 8 feet, for about 0.3 mile. Currents in the creek are reported to be very changeable and unpredictable. A highway bridge crossing the creek 0.3 mile from the entrance has a fixed span with a clearance of 14 feet. The adjacent power and telephone cables have a clearance of 28 feet. There is a surfaced launching ramp close N of the fixed bridge. A daybeacon marks the entrance.

Charts 11516, 11517, 11519, 11513, 11518

- (38) **Morgan River** flows into St. Helena Sound from westward. The river is about 8 miles long and at its

head connects with Chowan Creek, a tributary of Beaufort River; at the divide, this passage is nearly dry at low water where U.S. Route 21 highway bridge has a 28-foot fixed span with a clearance of 4 feet. The mean range of tide near the head of Morgan River is about 7 feet. **Coffin Creek**, on the south side of Morgan River near the mouth, has a shrimp-packing plant 1.7 miles above the creek mouth. In June 1985, the reported controlling depth was 2 feet across the bar at the mouth, thence 8 feet in midchannel to the plant. On **Village Creek**, about 0.8 mile above Coffin Creek, there are two shrimp-packing plants where diesel fuel and supplies may be obtained, in an emergency only. In June 1985, using local knowledge, a reported depth of 5 feet was available from the entrance to the shrimp-packing plants 1.5 miles upstream. **Edding Creek**, is about 1.5 miles west of Village Creek. In June 1983, the reported controlling depth in the creek was 5 feet for a distance of 2.5 miles.

- (39) On **Jenkins Creek**, about 2.1 miles westward of Edding Creek, are two shrimp-packing plants on the east side of the creek about 1.5 to 2 miles above the mouth. In 1994-March 1999, the reported controlling depth was 11 feet to these plants where diesel fuel, water and ice can be obtained in an emergency.

- (40) On the south shore of the Morgan River, west of Jenkins Creek, a marina has berths, electricity, gasoline, diesel fuel, water, ice, marine supplies, pump-out station, launching ramp and wet and dry storage. Hull, engine and electronic repairs can be made; a 35-ton lift is available.

Chart 11517

- (41) **Johnson Creek**, at the northern end of Hunting Island, was reported closed at low water in 1973. Extensive shoals, bare at low water, are eastward and northeastward of the mouth of the creek. The area should be used only at high water by shallow-draft vessels with local knowledge.

- (42) **Fripp Inlet**, reported to be marked by private buoys, is south of St. Helena Sound between Hunting Island and **Fripp Island**. Two spherical water tanks on cylindrical supports, on Fripp Island southwestward of the inlet, are prominent. The entrance is well defined by breakers, and flats which show at low water. The entrance is subject to continual change; entrance should not be attempted without local knowledge. A highway bridge across the inlet has a fixed span with a clearance of 15 feet. On **Old House Creek**, about 0.3 mile westward of the bridge and on the south side of the inlet, is a marina where gasoline, diesel fuel, water, ice, a launching ramp, some marine supplies, and a 2-ton mobile

hoist are available. In June 1983, the reported controlling depth was 6 feet from the entrance to the marina 1.6 miles above the mouth and 12 feet alongside the float. Just southeastward of the marina is the Fripp Island Sea Rescue Heliport. In cases of emergency, the heliport can be contacted through the marina or Fripp Island security on VHF-FM channel 16; telephone 843-838-2832, 843-838-2334. **Harbor River**, at the head of the inlet, connects with St. Helena Sound to the eastward, and **Story River** connects the inlet with Trenchards Inlet and Station Creek to the westward. In June 1983, the reported controlling depth was 5 feet in Harbor River and 5 feet in Story River. U.S. Route 21 highway bridge over Harbor River, 0.5 mile above the mouth, has a swing span with a clearance of 15 feet. An overhead power cable crossing along the southwest side of the bridge has a clearance of 110-feet. **Wards Creek**, on the north side of Harbor River 0.25 mile above the highway bridge, has a shrimp-packing plant about 1.2 miles above the mouth where emergency supplies may be obtained. In June 1983, the reported controlling depth was 4 feet.

- (43) **Skull Inlet**, 3 miles southwest of Fripp Inlet, is a narrow passage with little water over the bar.

Chart 11516

- (44) **Pritchards Inlet** (32°17.0' N., 80°33.0' W.), 5 miles northeast of Port Royal Sound, is a narrow passage from the ocean to **Moon Creek** which connects with the upper part of Trenchards Inlet; there is very little water over the bar.
- (45) **Trenchards Inlet**, just northeast of Port Royal Sound, has a bar which extends about 2 miles from shore; the narrow unmarked channel over the bar had a reported controlling depth of 3 feet in June 1983. Local knowledge is advised. This inlet is connected at its head by Station Creek, which joins Port Royal Sound to the westward.
- (46) **Port Royal Sound**, one of the largest deepwater harbors on the Atlantic Coast between Cape Henry and Key West, has an entrance about 2 miles wide between **Bay Point** on the northeast and **Hilton Head** on the southwest. It is about 50 miles southwest of Charleston and is the ocean entrance to Port Royal and Beaufort.

COLREGS Demarcation Lines

- (47) The lines established for Port Royal Sound are described in **80.712**, chapter 2.

Prominent feature

- (48) Three water tanks on Hilton Head Island are the most prominent objects at the entrance to Port Royal

Sound. The entrance is between shoals that extend up to 10 miles offshore. The land on both sides of the entrance is low and marshy, and fringed by sand beaches and timbered land. The breaking shoals are prominent.

Port Royal Sound Lighted Whistle Buoy P (32°05'06"N., 80°35'00"W.), marks the entrance.

Channels

- (49) A Federal project provides for a dredged channel 27 feet deep across the bar and through the sound to Bay Point, thence 24 feet in Beaufort River to a 27-foot turning basin in Battery Creek at Port Royal. (See Notice to Mariners and latest editions of the charts for controlling depths.) Several unmarked channels, all requiring local knowledge, lead through the breakers. **South Channel** to the westward of the dredged channel and **Southeast Channel**, between Martins Industry and St. Michaels Breaker just north of it, are the more important. The dredged channel is well marked by lights, lighted ranges, and buoys. The channel in Beaufort River, from the dredged channel northward to Beaufort, is part of the Intracoastal Waterway and had a reported controlling depth of 12 feet in June 1983. (See chart 11518.)

Anchorage

- (50) Port Royal Sound has natural depths of from 26 to 50 feet and is sometimes used as a harbor of refuge in winter. The best anchorage is off the mouth of Beaufort River westward of Bay Point northwest of Lighted Buoy 25. The holding ground on the rocky bottom south of Bay Point is poor. There is also good anchorage in 22 to 26 feet to the eastward of the dredged channel off the mouth of Chowan Creek.

Dangers

- (51) The breaking shoals extending almost 10 miles off Bay Point, eastward of the entrance channel, and for about 8 miles off Hilton Head Island, are the principal dangers. In thick weather, vessels should not approach the entrance too closely before picking up the pilot, especially on the flood, when the current sets directly onto the shoals: **Martins Industry**, the outermost shoal, **St. Michaels Breakers**, just north of it, and the **Great North Breakers**, between it and Bay Point. **Gaskin Banks**, **Fishing Bank**, and **Joiner Bank** are to the westward of the entrance channel. In November 1995, a submerged wreck was about 1.5 miles southwest of Port Royal Sound Lighted Whistle Buoy P, in about 32°04'05"N., 80°36'14"W.; and submerged obstructions were about 0.35 mile southward and 1 mile south-southwestward of Lighted Whistle Buoy P, in about 32°04'51"N., 80°34'57"W., and 32°04'18"N., 80°35'31"W., respectively.

- (52) **Danger zones** of rifle and pistol ranges are in Broad River, Archers Creek, and Ribbon Creek. (See **334.480**, chapter 2, for limits and regulations.)

Tides and currents

- (53) The mean range of tide is 6.4 feet on the bar, 7.2 feet at Port Royal, and 7.4 feet at Beaufort. The tidal currents on the bar have a velocity of 1.5 knots, off Hilton Head 1.8 knots, and at Beaufort River entrance 1.4 knots. Winds greatly influence the velocity of the tidal current, especially on the runout after prolonged easterlies, which on the ebb often reaches 5 knots. The current generally sets fair with the channel, except at the turn from the entrance channel into Bay Point Reach, where a strong current sets diagonally across the channel. Here, on the ebb, vessels should exercise caution lest they be set onto St. Michaels Breakers, eastward of the bar channel. The tidal currents in the sound have a velocity of 2 knots or more at times. The tide rips on Fishing Rip sometimes have the appearance of breakers. Predictions for a number of places in Port Royal Sound and vicinity are given in the Tidal Current Tables.

Weather, Beaufort, Port Royal Sound, and vicinity

- (54) Beaufort and Port Royal Sound have a pleasant climate where summers are warm and humid while winters are mild. Winds are generally from the northeast in fall and winter and southerly in spring and summer; the average wind speed is around 10 knots.
- (55) The average high temperature at Beaufort is 76°F (24.4°C) while the average low is 57°F (13.9°C). July is the warmest month with an average high of 91°F (32.8°C) and an average low of 74°F (23.3°C). January is the coolest month with an average high of 58°F (14.4°C) and an average low of 39°F (3.9°C). Each month, June, July, and August has reported temperatures in excess of 100°F (37.8°C) and the all-time warmest temperature of 106°F (41.1°C) occurred in June 1985 and July 1986. Each month, October through April, has recorded minimums of freezing or lower and the coolest reading on record is 5°F (-15°C), recorded in January 1985. In any given year, 90°F (32.2°C) or warmer temperatures can be expected on 56 days while temperatures below freezing can be expected on 25 days.
- (56) Summer is the rainy season (June-August) during which 38 percent of the annual rainfall is accumulated on about 7-9 days per month, mostly in the form of showers and thunderstorms. The annual average precipitation for Beaufort is 50 inches (1,270 mm). August is the wettest month averaging over 7 inches (178 mm) and November is the driest month averaging 2.4 inches (61 mm). Snowfall is rare in Beaufort averaging less

than 1 inch (25 mm) each year. Snow has fallen in each month, December through March and nearly 6.5 inches (165.1 mm) fell in one 24-hour period during February 1973.

- (57) Since 1842, 66 tropical storms have come within 50 miles (93 km) of Beaufort, South Carolina, 25 of these storms since 1950. The most noteworthy in recent time was in 1959 when Hurricane Gracie made landfall just east of Beaufort near Edisto Island at noon on September 29. The Marine Corps Air Station at Beaufort reported sustained winds of 84 knots with gusts to 120 knots. Wind damage for the Beaufort area was the worst on record and flooding was extensive.
- (58) Fog occurs mostly in the winter and may be experienced from October to April, or after a very warm day when there is a sharp drop in temperature at night. It usually burns off in the forenoon. Easterly winds bring in the fog and westerly winds clear it away.

Pilotage, Beaufort/Port Royal

- (59) Pilotage is compulsory for all foreign vessels and for U.S. vessels under register in the foreign trade. Pilotage is optional for U.S. vessels which have on board a pilot licensed by the Federal Government. Pilotage is available from the Port Royal Branch Pilots Association, P.O. Box 404, Port Royal, SC 29935; telephone, 843-597-0017. The pilot boards vessels at Port Royal Lighted Whistle Buoy P (32°05'06"N., 80°35'00"W.) from a 40-foot pilot boat equipped with VHF-FM channel 16. Pilotage is available 24 hours a day. Arrangements should be made in advance by telephone or through the ship's agent. A 24 hour notice of arrival time is requested.

Towage

- (60) There are no tugs at Port Royal or Beaufort. If required, they may be obtained from Charleston or Savannah by prior arrangements through ships' agents.

Quarantine, customs, immigration, and agricultural quarantine

- (61) (See chapter 3, Vessel Arrival Inspections, and appendix for addresses.)
- (62) **Quarantine** is enforced in accordance with regulations of the U.S. Public Health Service. (See Public Health Service, chapter 1.)

Harbor regulations

- (63) There are no harbor regulations at Port Royal and Beaufort. The State Ports Authority Terminal at Port Royal is under the jurisdiction of the Director of the South Carolina State Ports Authority.

Wharves

- (64) The South Carolina State Ports Authority Terminal (Pier 21), on the northeast side of the turning basin in Battery Creek at Port Royal, is the only deepwater facility in the area. It is owned by the Authority and operated by Port of Port Royal, Inc. The 500-foot marginal wharf at the terminal had reported depths of 27 feet alongside in June 1983. A transit shed and a warehouse with 60,000 square feet and 8,500 square feet of storage area, respectively, are available at the terminal. The terminal has highway connections, and rail trackage connections with SCPRC and CSX at the rear of the transit shed. Lumber and agri-chemicals are shipped from the terminal. The other facilities at Port Royal include several small wharves and piers used by fishing vessels. There are only small-craft facilities at Beaufort; these are described later in this chapter.

Supplies

- (65) Some marine supplies and provisions are available through ship chandlers in Savannah. Bunker C fuel oil and diesel oil are brought in by barge or truck from Savannah. Freshwater is piped to the South Carolina State Ports Authority Terminal.

Repairs

- (66) There are no drydocking or major repair facilities for oceangoing vessels at Port Royal and Beaufort; the nearest such facilities are at Charleston and Savannah.

Communications

- (67) Rail freight and bus connections are available. There are good highways to the outer islands and to Savannah, Charleston, and inland places.

- (68) **Beaufort River**, which flows into Port Royal Sound from northward just inside Bay Point, is the approach to the U.S. Marine Corps Recruit Training Depot on Parris Island, Port Royal, and Beaufort. The river is a link in the Intracoastal Waterway; above the improved portion depths of 12 feet or more can be taken to the city of Beaufort.

- (69) **Station Creek** joins Beaufort River from eastward 1 mile above Bay Point. An inside route used only by local fishermen leads from Port Royal Sound to St. Helena Sound through Station Creek, Story River, and Harbor River. In June 1983, the reported controlling depths were 5 feet in Story River and Harbor River and in December 1999, the reported controlling depth in Station Creek was 3.5 feet. The entrance to Station Creek is marked by a daybeacon.

- (70) **Cowen (Chowan) Creek**, which empties into Beaufort River from northeastward about 5 miles above Bay Point, connects at its head with Morgan River. Passage

to Morgan River is restricted about 5 miles above the mouth of Cowen Creek by U.S. Route 21 highway bridge and by the shoals in that vicinity.

- (71) **Parris Island**, on the west side of the entrance to Beaufort River, is the site of a U.S. Marine Corps Recruit Training Depot. The dock on Parris Island opposite the mouth of Cowen Creek had a reported least depth of 6 feet alongside in June 1983. The remains of an old U.S. Naval graving dock are adjacent to the pier. Several tanks and the many large buildings on the island are prominent.

- (72) **Battery Creek** empties into Beaufort River from northwestward 7 miles above Bay Point. Above the turning basin at Port Royal, the creek, in November 1999, had a reported controlling depth of 12 feet to State Route 802 highway bridge, and thence in 1983, 7 feet in a narrow winding channel to about a half mile below the railroad bridge. At this point, 4.4 miles above the mouth, overhead power cables crossing the creek have a clearance of 12 feet. The highway bridge has a fixed span with a clearance of 45 feet.

- (73) **Archers Creek**, a narrow passage leading westward from the mouth of Battery Creek to Broad River, is shoal at its eastern end. There is exposed piling at its western end. About midway of its length, a highway bridge has a 34-foot fixed span with a clearance of 16 feet. An overhead power cable is close eastward of the bridge; clearance is not known. The creek, along with **Ribbon Creek**, is included in the danger zone of a rifle range. (See 334.480, chapter 2, for limits and regulations.)

- (74) **Port Royal**, a town on the north bank of the entrance to Battery Creek, is one of the oldest settlements on the Atlantic and of marked historical interest. The large modern State Ports Authority Terminal, described earlier, is here. Several plants above and below the terminal process shrimp, crab, oysters, and fish for shipment inland. Port Royal is the terminus of a branch of the Seaboard System Railroad.

- (75) **Beaufort** (pronounced Bew-fert), on the point of land jutting eastward into Beaufort River 11 miles above Bay Point, is a city of great historical interest. The city can also be reached from the northward via the Intracoastal Waterway. There are motels, banks, a hospital, and numerous small businesses. A good portion of the commercial life of the city is dependent on the proximity of a U.S. Naval hospital, the Marine Corps Recruit Training Depot, and the Marine Corps Air Station. It has good highway connections with the mainland and the other islands and beaches. It is served by a branch of the Seaboard System Railroad. Principal commodities handled are fish, crabs, and oysters, which are trucked inland after processing, and truck

farming. There is fair anchorage in the stream off the wharf westward of U.S. Route 21 highway bridge.

- (76) The hospital at Beaufort maintains a pier with a floating landing stage on the south side of Beaufort, westward approximately 1.5 miles from U.S. Route 21 highway bridge. In June 1989, the alongside depth was reported as 12 feet. A phone on the pier connects directly to the emergency room.

Small-craft facilities

- (77) A municipal marina and a marina just to westward are on the south side of Beaufort westward of U.S. Route 21 highway bridge. Other marinas are eastward of the bridge just inside the entrances to nearby **Factory Creek** and **Broomfield Creek**. Berths, electricity, gasoline, diesel fuel, water, ice, launching ramps, pump-out station, marine supplies and wet and dry storage are available at the marinas. The marina on Broomfield Creek has a 50-ton lift that can handle craft for complete hull and engine or do-it-yourself repairs.

Charts 11516, 11519, 11513

- (78) **Broad River**, which enters Port Royal Sound on the west side of Parris Island, extends northwestward about 16 miles. The river is not difficult to navigate as far as Whale Branch, about 13 miles above the entrance. A **danger zone** of a pistol range is on the west side of Parris Island. (See **334.480**, chapter 2, for limits and regulations.) State Route 170 highway swing bridge with a clearance of 12 feet crosses Broad River about 7 miles above the entrance. (See **117.1 through 117.59 and 117.921**, chapter 2, for drawbridge regulations.) Archers Creek, about 4 miles above the entrance of Broad River, connects Broad River with Beaufort River to the eastward; the creek was described earlier in this chapter.

Charts 11519, 11513

- (79) The Seaboard System Railroad (SCL) bridge, which crosses Broad River about 15 miles above the entrance and 2 miles above the junction with Whale Branch, has a swing span with a clearance of 7 feet. (See **117.1 through 117.59 and 117.921**, chapter 2, for drawbridge regulations.) **Pocotaligo River**, **Tulifiny River**, and **Coosawhatchie River** are shallow streams which empty into the head of Broad River.
- (80) **Whale Branch**, which connects Broad River with Coosaw River to the eastward, had a reported midchannel controlling depth of 4.1 feet to U.S. Route 21 highway bridge in May 2001; thence in 1983, 5 feet was reported to Coosaw River. Overhead power cables

crossing the branch have a minimum clearance of 40 feet; the cable with this least clearance crosses the branch immediately eastward of U.S. Route 21 highway bridge about 5.5 miles above the mouth. The Seaboard System Railroad (SCL) bridge over the branch, 4 miles from Broad River, has a swing span with a clearance of 5 feet. The U.S. Route 21 highway bridge, 1.5 miles above the railroad bridge, has a fixed span with a clearance of 20 feet.

- (81) **Brickyard Creek**, 5 miles eastward of the highway bridges over Whale Branch, connects Coosaw River with Beaufort River to the southward and is a link in the Intracoastal Waterway. The mean range of tide is 7.3 feet at the mouth of the creek.

Chart 11516

- (82) **Chechessee River** empties into Port Royal Sound from westward. The State Route 170 highway bridge crossing the river 10 miles above the mouth has a fixed span with a clearance of 20 feet. In June 1983, the reported controlling depth was 20 feet from the mouth of the Chechessee River to just above **Copps Landing** on the **Colleton River**, 5 miles above the mouth. These rivers are of no commercial importance.
- (83) **Mackay Creek** joins Chechessee River from westward about 1 mile above its mouth. The creek, partially marked by a private light and daybeacons, connects Port Royal Sound with Calibogue Sound. This passage is more difficult, narrow, and erratic than the route through Skull Creek. Local knowledge is advised. In March 2002, the reported controlling depth in Mackay Creek was 4 feet. U.S. Route 278 highway bridge over Mackay Creek from **Buckingham Landing** to **Last End Point** has twin fixed spans with clearances of 25 feet. An overhead power cable crossing the river just north of the bridge has a clearance of 43 feet.
- (84) **Skull Creek**, a link in the Intracoastal Waterway, enters Port Royal Sound from southwestward about 4 miles above Hilton Head and is described in chapter 12.

Chart 11512

- (85) **Calibogue Sound** is entered between Hilton Head Island and **Daufuskie Island**, about 5 miles northward of Tybee Light (32°01'18"N., 80°50'48"W.). The entrance is obstructed by shifting shoals through which are several crooked channels. The best channel extends from Tybee Roads northward between Bloody Point Range Front Light and the northwest end of the submerged breakwater 1.9 miles northeast of Tybee Light. The channel into the sound is marked by lights, a buoy, and daybeacons. In April 2001, the reported controlling

depth was 10 feet over the bar. Inside the bar, depths are ample.

COLREGS Demarcation Lines

- (86) The lines established for Calibogue Sound are described in **80.715**, chapter 2.
- (87) **Cooper River**, of importance only as a section of the Intracoastal Waterway, empties into Calibogue Sound from westward about 3 miles above the entrance to the sound.

Chart 11516

- (88) **May River**, which empties into Calibogue Sound from westward about 6 miles above the entrance, is the approach to the town of **Bluffton**, 7 miles above the mouth. The reported controlling depth in the river to Bluffton was 10 feet in June 1983. The river is marked by daybeacons as far as Bluffton. **Brighton Beach**, a small town about 3 miles downriver from Bluffton, has two small-boat launching ramps. The overhead power cable near **Buck Point** has a clearance of 35 feet over the narrow northern channel and 68 feet over the southern channel. The clearances for the power cable west of Bluffton (chart 11513) are 53 feet over the northern channel and 48 feet over the southern. Passage is sometimes made from May River to Cooper River by way of unmarked **Bull Creek**. An overhead cable with a clearance of 46 feet crosses Bull Creek between Bull and Savage Islands. The tides meet in Bull Creek, forming flats. In 1999, the creek had a reported controlling depth of about 6 feet to the junction of **Savage Creek**, thence the reported depth was 1 foot to a junction with May River.
- (89) **Broad Creek** flows into Calibogue Sound from eastward, about 1.2 miles above the entrance to the sound, and extends 6 miles into Hilton Head Island. In June 1983, the reported controlling depth was 9 feet for a distance of 5 miles. The creek is marked by private lights and daybeacons for about 5.3 miles above the mouth.
- (90) The fixed highway bridge, 3.3 miles above the mouth to Broad Creek has a clearance of 65 feet.
- (91) The yacht basin at **Harbour Town**, just southward of the entrance to Broad Creek, has a marina at which berths, electricity, gasoline, diesel fuel, pumpout, water, and ice, and marine supplies are available. In December 2002, the privately marked and maintained channel had a reported controlling depth of 10 feet.
- (92) A marina, on the south side of Broad Creek about 3.5 miles above the entrance, has berthage with electricity, gasoline, diesel fuel, water, ice, marine supplies,

pumpout, and lift to 77 tons are available. Hull, engine, and electrical repairs can be made.

Chart 11512

- (93) **Savannah River**, the boundary between the States of South Carolina and Georgia, is 65 miles southwestward of Charleston Harbor and 105 miles northward of the entrance to St. Johns River. It is navigable for deep-draft vessels to the upper end of Savannah Harbor, 19 miles above the outer ends of the entrance jetties, and for barges to the city of Augusta, 172 miles above the entrance. Deep-draft vessels approach the entrance from outside Savannah Light.
- (94) **Savannah**, on the south bank of Savannah River about 15 miles above the outer end of the jetties, is the second largest city and chief port of the State of Georgia. It is a leading southern port and is the main distributing point for the surrounding country. The city has considerable coastwise and foreign trade, and is connected with coastal cities to the north and south by the Intracoastal Waterway which crosses Savannah River several miles below the waterfront terminals. The climate is equable, and high-velocity winds are infrequent. The water-borne commerce is of a widely varied nature. Imports include petroleum products, sugar, lumber, cement, gypsum, fertilizer materials, nonferrous ores, textiles, plywood, molten sulfur, chemicals, agricultural machinery, and iron and steel products; exports include petroleum products, kaolin clay, woodpulp, vegetable oil, peanuts, grain, naval stores, paper products, tall oil, oil seeds, scrap iron, and agricultural machinery.

Prominent features

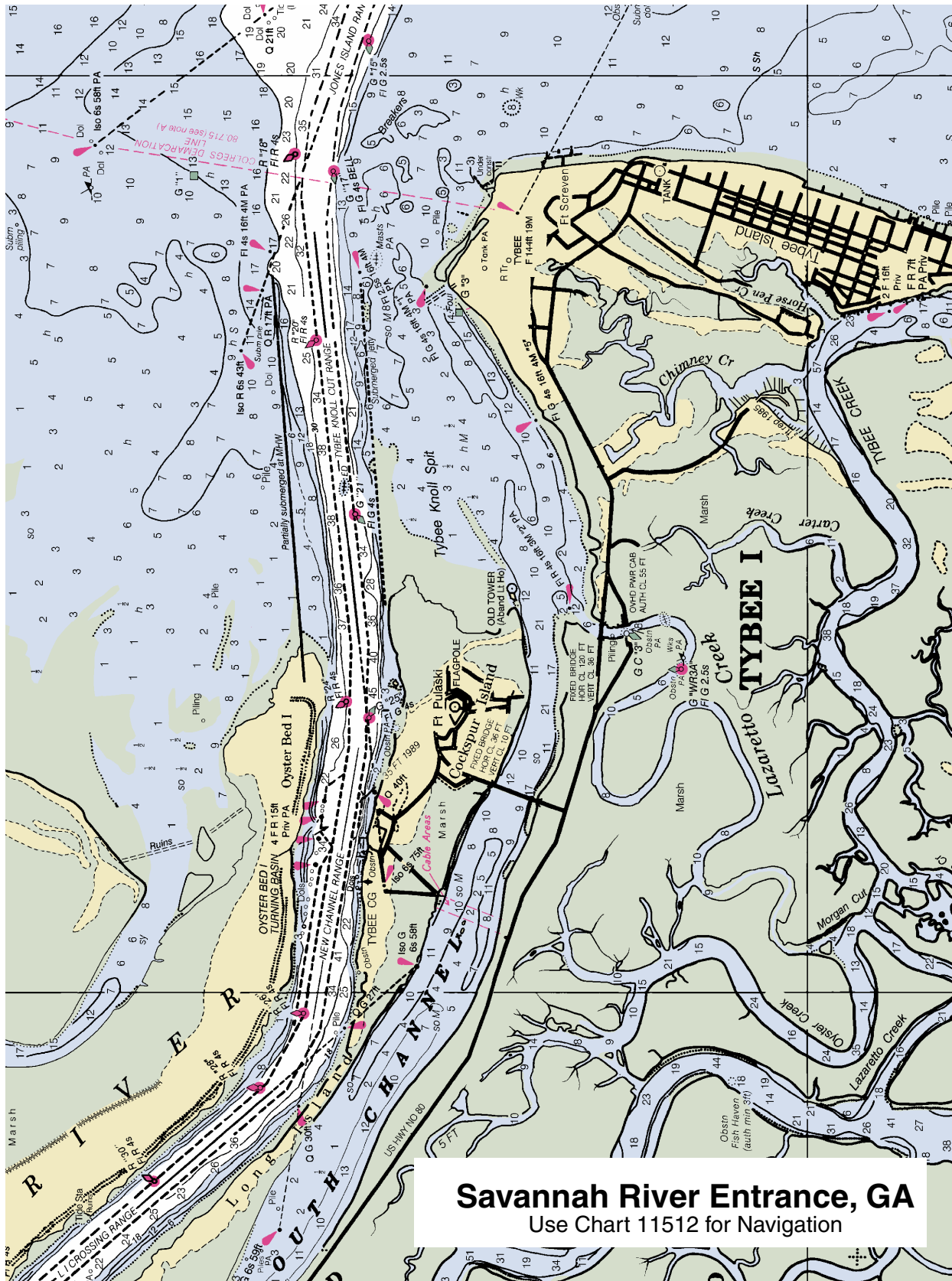
- (95) **Tybee Light** (32°01'20"N., 80°50'44"W.), 144 feet above water, is shown from an octagonal brick tower, lower one third white and upper two thirds black, on the northeast end of Tybee Island.
- (96) The three water tanks on **Hilton Head Island** are prominent in the approach from northward. Also prominent from seaward, are the water tank at Tybee Island, the flashing red lights atop the three WBMQ radio towers on **Oatland Island**, the large chemical plant southwestward of **Mackey Point**, and the three 200-foot-high tanks on **Elba Island**, about 9 miles above the entrance.

COLREGS Demarcation Lines

- (97) The lines established for Savannah River are described in **80.715**, chapter 2.

Savannah River Entrance, GA





Channels

- (98) A Federal project provides for a 44-foot channel across the bar through Tybee Roads to the jetties, thence 42 feet for about 16 miles in the main channel to the turning basin at Kings Island, thence 36 to 42 feet for about 1 mile, thence 30 feet for another 1.4 miles to the head of the project about 500 yards below U.S. Route 17 highway bridge. (See Notice to Mariners and latest editions of the charts for controlling depths.) The channels are well marked by lighted ranges, lights, and lighted and unlighted buoys.
- (99) A 2.1-mile-long sediment trap is in Back River on the north side of Hutchinson Island. A tide gate is at the head of the sediment trap.

Anchorage

- (100) Most vessels anchor northward or northwestward of the sea buoy, Tybee Lighted Whistle Buoy T (31°57'54"N., 80°43'12"W.), where depths range from 19 to 45 feet with good holding ground. There is no anchorage in Savannah River except in an emergency.

Dangers

- (101) The set of the tidal current in and out of the various sounds and inlets should be carefully considered by vessels approaching Savannah by the inshore route. There are several unmarked obstructions in the approaches. The **danger area** of an Air Force air-to-air and air-to-water gunnery and bombing range is about 15 miles seaward of the light. (See **334.490**, chapter 2, for limits and regulations.)
- (102) The entrance to the Savannah River is protected by jetties. The north jetty is unmarked and awash at mean high water and marked about 0.2 mile seaward of its east end by a light. The south jetty is submerged at mean high water and marked at the east end by a light.

Bridges

- (103) An overhead power cable with a clearance of 221 feet crosses the main channel of the Savannah River at Fig Island about 10.3 miles above the mouth. The Eugene Talmadge Memorial Highway bridge near the western edge of the city waterfront, 13 miles above the mouth, has a fixed span with a clearance of 185 feet over the center span width of 500 feet. U.S. Route 17A highway served by this bridge also crosses Back River to the northeastward over a trestle with a 34-foot fixed span which has a clearance of 10 feet. The CSX bridge crosses Back River about 1.2 miles above the Eugene Talmadge Memorial Highway bridge on a trestle with a 30-foot fixed span which has a clearance of 11 feet; an overhead power cable on the south side of this bridge has a clearance of 15 feet. An overhead power cable with a clearance of 208 feet crosses the main channel of the

Savannah River at Port Wentworth about 4.3 miles above the Eugene Talmadge Memorial Highway bridge, and another cable with a clearance of 55 feet crosses the mouth of Middle River just to the east of the main channel. The U.S. Route 17 (Houlihan) highway bridge about a mile above Port Wentworth at the head of the Federal project, has a swing span with a clearance of 8 feet. The bridgetender monitors VHF-FM channel 16 and works on channel 13; call sign, WHV-879. (See **117.1 through 117.59 and 117.371**, chapter 2, for drawbridge regulations.) The highway continues on across Middle River and Little Back River. A bridge across Middle River has a 17-foot fixed span with a clearance of 5 feet, and a bridge across Little Back River has a 40-foot fixed span with a clearance of 8 feet.

Tides and currents

- (104) Daily predictions for both Savannah River entrance and Savannah are given in the Tide Tables. At the bar, high and low waters occur about 30 minutes earlier than at the river entrance. The mean range of tide is 6.8 feet at Tybee Light and 7.9 feet at Savannah.
- (105) The velocity of the ebb current from the entrance jetties to Savannah is from 2.2 to 3.1 knots. The flood current has a velocity of from 1.6 to 2.4 knots. The current is considerably influenced by winds and freshets. The predicted times of slack water and the times and velocities of strength of flood and ebb at the entrance to Savannah River are given in the Tidal Current Tables. Predictions for a number of other places in Savannah River may be obtained from data in the tables.
- (106) Currents set in the direction of the channel except at the entrance near Tybee Light, where the flood sets northwestward across the channel. Between the jetties the flood sets 260°. Freshets occasionally occur in the spring, but do not endanger shipping at the wharves.
- (107) It is reported that currents in the river can reach 7 to 8 knots in the vicinity of Garden City Terminal Berths 1-2 (southwest side of the river just below the U.S. Route 17A bridge) and Colonial Oil Berths 50-51 (southwest side of river about 2.5 miles above the 17A bridge).
- (108) A tide gate structure crosses Back River about 2.3 miles above its junction with Savannah River. The tide gate allows water to enter Back River above the structure on the tidal flood, and at high water slack the gate is closed and the accumulated water is allowed to flow back into the Savannah River northwestward of Hutchinson Island. The tide gate operates automatically, and the area immediately upstream and downstream has been designated a restricted area and is marked by buoys and signs.

Weather, Savannah and vicinity

(109) This area features a temperate climate with mild winters and warm, humid summers. The average high temperature at Savannah is 77°F (25°C) and the average low is 56°F (13.3°C). July is the warmest month with an average high of 92°F (33.3°C) and an average low of 72°F (22.2°C). January is the coolest month with an average high of 60°F (15.6°C) and an average low of 38°F (3.3°C). Each month, May through August has recorded temperatures in excess of 100°F (37.8°C) while each month, October through April has recorded temperatures of freezing or lower. The record high temperature at Savannah is 105°F (40.6°C) recorded in July 1986 and the all-time minimum is 3°F (-16.1°C) recorded in January 1985. The average number of occurrences of maximum temperatures of 90°F (32.2°C) or warmer is 70 days for any one year and the average number days of occurrences of 32°F (0°C) or colder minimum temperature is 29 days.

(110) Hurricanes and tropical storms are most likely from June through October. While September and October are the peak months for all tropical cyclones, those of hurricane intensity have shown a preference for August. Since 1842, 68 tropical storms have come within 50 miles (93 km) of Savannah, Georgia, 25 of these storms since 1950. Due to the geographical location and the indentation of the Georgia coastline, a direct hit is rare and the distribution is fairly equal for storms approaching from the south and are weakened by the Florida coastline, and those approaching from the southwest and are weakened from having made landfall along the northeastern Gulf Coast. One of Savannah's worst storms occurred in August 1911 when sustained winds reached 83 knots and for 3 hours remained between 70 and 80 knots. Winds on the coast can be expected to be about 20 knots higher in hurricane conditions. Of the seven major hurricanes to directly affect Savannah, five occurred in August while one each struck in September and October. Rainfall from tropical cyclones has exceeded 20 inches (508 mm). Storm tides reached 12 feet (3.65 m) above mean low water at Savannah Beach during the October 1947 hurricane.

(111) Gale force winds occur in thunderstorms, which sometimes organize into squall lines either ahead of, or along a cold front. These can be particularly violent in spring when cold and warm air masses collide.

(112) The local climate varies significantly between the coast and the city region. The lessening Atlantic influence upriver result in about twice as many 90°F (32.2°C) days in summer and twice as many freezing nights in winter, as compared to the coast. In general, the city receives about 5 to 6 more inches (127 to 152 mm) of precipitation on 5 to 10 more days, annually,

than the coast. Heavy fog at the airport occurs on an average of 4 to 5 days per month from September through January. This is usually a radiation fog so that visibilities are poorest in the early morning hours but improve during the day. This clearing is retarded by industrial pollutants. Along the coast this type of fog is less frequent, but a more persistent sea fog may hamper visibility in winter and spring.

(113) (See page T-7 for **Savannah climatological table.**)

(114) The National Weather Service Office is at the Municipal Airport, 9 miles outside the city, where **barometers** are compared.

Pilotage, Savannah

(115) Pilotage is compulsory for all foreign vessels and U.S. vessels under register in the foreign trade. Pilotage is optional for U.S. vessels in the domestic trade which have on board a pilot licensed by the Federal Government. Pilotage is available from the Savannah Bar Pilots Association, Inc., 550 East York Street, Savannah, GA 31412, telephone 912-236-0226, FAX 912-236-6571. The pilots maintain two pilot boats; the 77-foot GEORGIA and the 65-foot SAVANNAH PILOT. Both have blue hulls and white superstructures, fly the code flag **H**, and are equipped with VHF-FM channels 18A, 16, 14, 13, and 11. The boats are in direct communication with the pilot office in Savannah. Communications on channels 18A, 16, and 14 are monitored by the pilot's office on a 24-hour basis, and by the pilot boats at all hours when working ships. Pilots board from the pilot boat in the vicinity of the sea buoy (Tybee Lighted Whistle Buoy T, 31°57'54"N., 80°43'12"W.). Ships are taken in day or night; deeper draft vessels are taken in on a rising tide. Pilots are arranged for in advance by telephone or FAX (above), through the Savannah Marine Operator, through radio, or through ships' agents.

(116) The Savannah River Pilots Association participates in the northern right whale Early Warning System (see Northern right whales, indexed as such, chapter 3.)

(117) Pilotage for enrolled and public vessels is available from Coastal Line Handling and Piloting, P.O. Box 15095, Savannah, GA 31416, telephone (912) 354-0800. This association will shift any flag vessel in port that does not require tug assistance. A six hour advance notice is requested. The Coastal Pilots monitor VHF-FM channels 16 and 18A.

Towage

(118) Tugs up to 3,900 hp are available at Savannah on a 24-hour basis; services must be arranged for in advance. Vessels usually proceed from the bar to Savannah without assistance. Tugs are available for docking, undocking, and when shifting berths. Vessels are met

by tugs just below their assigned berths, or elsewhere in the harbor as required.

Quarantine, customs, immigration, and agricultural quarantine

- (119) (See chapter 3, Vessel Arrival Inspections, and appendix for addresses.)
- (120) **Quarantine** is enforced in accordance with regulations of the U.S. Public Health Service. (See Public Health Service, chapter 1.) There are public and private hospitals in the city.

Coast Guard

- (121) A **Marine Safety Office** is in Savannah. (See appendix for address.) **Tybee Coast Guard Station** is on the north side of Cockspar Island at the mouth of the river and **Savannah Coast Guard Air Station** is at Hunter Army Airfield, south of the city.
- (122) Savannah is a **customs port of entry**.

Harbor regulations

- (123) The Savannah Port Authority has jurisdiction over Savannah Harbor and the port district. Port and harbor regulations are enforced within the port and port district by the **harbormaster** who can be reached at City Hall or through the Savannah Port Authority, and by the county and municipal police forces. Copies of the port and harbor regulations are available from the Savannah Port Authority, 42 E. Bay Street. A **speed limit** of 4 m.p.h., against the current, and 6 m.p.h., with the current, is in force within the harbor limits. The Georgia Ports Authority owns and operates the State docks and warehouses.

Wharves

- (124) There are numerous wharves of all types at Savannah; only the major ones are described. For a complete description of the port facilities, refer to Port Series No. 14, published and sold by the U.S. Army Corps of Engineers. (See appendix for address.) Most of the facilities have highway and railroad connections as well as water and electrical shore power. The smaller facilities at Savannah are used by barges and small vessels, and as vessel repair berths; these are not described. Cargo is generally handled by ship's tackle; special cargo handling equipment, if available, is mentioned in the description of the particular facility. The alongside depths given for each facility described are reported depths. (For information on the latest depths, contact the operator.)
- (125) **Facilities on the south side of Savannah River below the Eugene Talmadge Memorial Bridge:**
- (126) **Southern LNG, Savannah Wharf** (32°05'15"N., 80°59'30"W.): service platform 66 by 70 feet, unloading

platform 96 by 20 feet; 39 feet alongside; 1,255 feet of berthing space with dolphins; deck height, 21 feet; 1,255 feet of berthing space with dolphins; deck height, 21 feet; cranes to 12 tons with 80-foot boom; pipelines extend to storage tanks with 1.2-million barrel capacity; receipt of liquefied natural gas; owned and operated by Southern LNG, Inc.

- (127) **ST Services, Savannah Terminal, East Tank Farm, Dock No. 1** (32°04'48"N., 81°02'32"W.): 54-foot face, 600 feet of berthing space with dolphins; 24 feet alongside; deck height, 17 feet; storage tanks, 543,850-barrel capacity; receipt of petroleum products; owned and operated by ST Services.

- (128) **76 Lubricants Co., Savannah Terminal Wharf** (32°04'46"N., 81°02'38"W.): 87-foot face; 605 feet of berthing space with dolphins; 34 feet alongside; deck height, 15 feet; storage tanks with 150,000-barrel capacity; receipt of petroleum products; owned and operated by 76 Lubricants Co., a division of Tosco Corp.

- (129) **ST Services, Savannah Terminal, West Tank Farm, Dock No. 2** (32°04'44"N., 81°02'48"W.): 40-foot face; 850 feet of berthing space with dolphins; 34 feet alongside; deck height, 15 feet; storage tanks 318,000-barrel capacity; receipt and shipment of petroleum products; owned and operated by ST Services.

- (130) **GP Gypsum Corp., Savannah Wharf** (32°04'45"N., 81°03'08"W.): 514-foot face; 746 feet of berthing space with dolphins; 39 feet alongside; deck height, 13.9 feet; traveling tower with 8½-ton capacity traveling bucket; receiving hopper, 800-tons per hour unloading rate; open storage, 250,000-ton capacity; railway track connection to CSX Transportation, Inc.; receipt of gypsum rock and limestone by self-unloading vessels; owned by Savannah Port Authority and operated by GP Gypsum Corp.

- (131) **Savannah River Wharf Co.** (32°04'45"N., 81°03'54"W.): 80-foot face; 1,100 feet of berthing space with dolphins; 36 feet alongside; deck height, 13 feet; open storage area for 250,000 tons; vessel-loading spout, 1,100 tons per hour loading rate; receipt and shipment of dry bulk commodities, including wood chips; receipt of aggregate; owned by Peebles Industries, Inc., and operated by Savannah River Wharf Co.

- (132) **East Coast Terminal Co. Wharf, Berths 3-7** (32°04'42"N., 81°04'06"W.): 1,800-foot face; 1,800 feet of berthing space; 34 to 36 feet alongside; deck height, 13 feet; four transit sheds, total 304,900 square feet; 28 acres open storage; pipeline extends from wharf to storage tank in rear, 1 million-gallon capacity; receipt and shipment of conventional and containerized general cargo, steel products, liner board, and wood pulp; receipt of cement clinker, bauxite, gypsum, and liquid sulphur; owned by Peebles Industries, Inc., and operated by East Coast Terminal Co.

- (133) **Georgia Ports Authority, Ocean Terminal, Berths 1-2** (32°05'11"N., 81°05'54"W.): 1,178-foot face; 1,250 feet of berthing space with dolphin; 42 feet alongside; deck height, 15 feet; two transit sheds, total 171,950 square feet storage; surfaced open storage at rear; receipt and shipment of conventional and containerized general cargo; owned and operated by Georgia Ports Authority.
- (134) **Facilities on the north side of Savannah River at Hutchinson Island below the Eugene Talmadge Memorial Bridge:**
- (135) **Crescent Towing, Savannah Wharf** (32°05'03"N., 81°05'22"W.): 375-foot face; 375 feet of berthing space; 15 feet alongside; deck height, 13 feet; mooring company-owned floating equipment; owned by International Paper Realty Corp. of South Carolina, and operated by Crescent Towing.
- (136) **Savannah Marine Services Wharf** (32°05'09"N., 81°05'42"W.): 200-foot face; 200 feet of berthing space; 8 to 15 feet alongside; deck height, 13 feet; several diesel crawler cranes up to 65-ton capacity, one 45-ton and one 18-ton mobile cranes; mooring vessels for repair; mooring floating drydock; mooring company-owned floating equipment; owned and operated by Savannah Marine Services, Inc.
- (137) **Facilities on the Southwest side of Savannah River above Eugene Talmadge Memorial Bridge:**
- (138) **Georgia Ports Authority, Ocean Terminal, Berth 13** (32°05'26"N., 81°06'08"W.): 975-foot face; 975 feet of berthing space; 42 feet alongside; deck height, 15 feet; three transit sheds, total 350,460 square feet storage; about 2 acres surfaced open storage with 83 acres of backup open storage; receipt and shipment of conventional and containerized general cargo.
- (139) **Georgia Ports Authority, Ocean Terminal, Berths 14-17** (32°05'25"N., 81°06'18"W.): 1,128-foot face (Berths 14 and 15); 1,041-foot face (Berths 16 and 17); 34 feet alongside; deck height, 15 feet; transit sheds, total 327,700 square feet storage; receipt and shipment of conventional and containerized general cargo; mooring vessels.
- (140) **Georgia Ports Authority, Ocean Terminal, Berths 18-20** (32°05'38"N., 81°06'22"W.): 1,666-foot face; 1,666 feet of berthing space; 38 to 42 feet alongside; deck height, 15 feet; transit shed, total 57,000 square feet storage; surfaced open storage area; receipt and shipment of conventional and containerized general cargo; receipt of liquid latex.
- (141) **Colonial Terminals, Savannah Plant No. 1, Dock 1** (32°05'47"N., 81°06'32"W.): 60-foot face; 683 feet of berthing space with dolphins; 38 feet alongside; deck height, 12.5 feet; storage tanks to about 1.66-million barrel capacity; receipt and shipment of petroleum products, petrochemicals, and chemicals; loading harbor-bunkering barges with bunker C and marine diesel fuel; owned and operated by Colonial Terminals, Inc.
- (142) **Colonial Terminals, Savannah Plant No. 2, Dock 2** (32°06'06"N., 81°06'58"W.): 210-foot face; 750 feet of berthing space with dolphins; 38 feet alongside; deck height, 15 feet; storage tanks to 770,000 barrel capacity; shipment and occasional receipt of dry bulk commodities, including kaolin and fertilizer; shipment of liquid kaolin; owned and operated by Colonial Terminals, Inc.
- (143) **Citgo Asphalt Refining Co., Savannah Refinery Wharf** (32°06'36"N., 81°07'26"W.): 240-foot face; 675 feet of berthing space with dolphins; 38 to 40 feet alongside; deck height, 12 feet; pipelines extend from wharf to storage tanks, total capacity 1.1-million barrels; receipt of crude oil; shipment of petroleum products; shipment and occasional receipt of asphalt; owned and operated by Citgo Asphalt Refining Co.
- (144) **Southern Bulk Industries, Savannah Wharf** (32°06'46"N., 81°07'48"W.): 350-foot face (Dock B); 750 feet of berthing space with dolphins; 70-foot face (Dock A); 36 feet alongside; deck height, 14 feet; covered storage to 100,000 square feet; 8 acres open storage; receipt and shipment of kaolin and miscellaneous dry bulk commodities; receipt and shipment of break bulk commodities, including logs, steel, and gypsum board; owned by Peebles Industries, Inc., and operated by Southern Bulk Industries.
- (145) **Gold Bond Building Products, Savannah Plant Gypsum Wharf** (32°06'56"N., 81°07'48"W.): 400-foot face; 650 feet of berthing space with dolphins; 28 feet alongside; deck height, 12.3 feet; open storage for 100,000 tons; one receiving hopper for self-unloading vessels served by electric-belt conveyor system; receipt of gypsum rock; owned and operated by Gold Bond Building Products, Division of National Gypsum Co.
- (146) **Georgia Ports Authority, Garden City Terminal, Berth 50** (32°07'02"N., 81°07'52"W.): 80-foot face; 620 feet of berthing space with dolphins; deck height, 15 feet; pipelines extend from wharves to storage tanks, 2-million barrel capacity; one 2-ton telescopic boom for handling hose; railway connection to CSX Transportation, Inc., and Norfolk Southern Corp.; receipt and shipment of petroleum products, petrochemicals, and chemicals; receipt of vegetable oil, liquid fertilizer, and liquid latex; owned by Georgia Ports Authority; and operated by Paktank Corp., Trans Georgia Terminal, and Guthrie Latex, Inc.
- (147) **Georgia Ports Authority, Garden City Terminal, Container Berth 6** (32°07'12"N., 81°08'00"W.): 1,690-foot face; 1,690 feet of berthing space; 42 feet alongside; deck height, 15 feet; 395 acres surfaced open storage area; 49,500 square feet covered storage area;

container cranes to 50 long tons; gantry cranes to 40 long tons; toplifts to 43 tons; stackers to 7.5 tons; forklifts to 25 tons; railway connection to CSX Transportation, Inc., and Norfolk Southern Corp.; receipt and shipment of containerized and roll-on/roll-off general cargo; owned and operated by Georgia Ports Authority.

- (148) **Georgia Ports Authority, Garden City Terminal, Container Berths 1-5** (32°07'36"N., 81°08'12"W.): 2,369-foot face (Berths 4-5); 2,369 feet of berthing space; 2,478-foot face (Berths 1-3); 2,478 feet of berthing space; 42 feet alongside; deck height, 15 feet; container cranes to 50 long tons; gantry cranes to 40 long tons; toplifts to 43 tons; stackers to 7.5 tons; forklifts to 25 tons; railway connection to CSX Transportation, Inc., and Norfolk Southern Corp.; receipt and shipment of containerized and roll-on/roll-off general cargo; owned and operated by Georgia Ports Authority.

- (149) **Georgia Ports Authority, Garden City Terminal, Container Berth 62** (32°08'11"N., 81°08'36"W.): 135-foot face; 682 feet of berthing space with dolphins; 36 feet alongside; deck height, 15 feet; pipeline extends from wharf to 17-million gallon storage tanks; one swivel-jointed pipeline loading arm; railway connection to CSX Transportation, Inc., and Norfolk Southern Corp.; receipt of anhydrous ammonia; owned by Georgia Ports Authority, and operated by PCS Phosphate.

- (150) **Facilities on the west side of Savannah River (Port Wentworth):**

- (151) **Koch Materials Co., Savannah Dock** (32°08'23"N., 81°08'38"W.): 30-foot face; 680 feet of berthing space with dolphins; deck height, 12 feet; pipelines extend from wharf to storage tanks, 245,000 barrels capacity; one swivel-jointed pipeline loading arm; receipt of asphalt; owned and operated by Koch Materials Co.

- (152) **Savannah Sugar Refinery Wharf** (32°08'48"N., 81°08'33"W.): 288-foot face; 30 feet alongside; 600 feet of berthing space with dolphin; deck height, 18 feet; pipeline extends from wharf to storage tanks, 3.66-million gallons capacity; 150,000-ton covered storage area; crawler cranes to portable 15-ton receiving hoppers serving electric belt conveyors, extending to refinery in rear; receipt of raw sugar, molasses, and fuel oil for plant consumption, owned and operated by Savannah Sugar Refinery, Division of Imperial Sugar.

- (153) **Atlantic Wood Industries Wharf** (32°08'51"N., 81°08'35"W.): 217-foot face; 26 feet alongside; 400 feet of berthing space with shore moorings; deck height, 12 feet; 35 acres open storage; forklifts to 10-tons; mobile cranes to 50-tons; shipment of timber and timber products; owned and operated by Atlantic Wood Industries, Inc.

- (154) **Georgia Steamship Co., Savannah Wharf** (32°09'09"N., 81°09'06"W.): 200-foot face; 36 feet alongside; 800 feet of berthing space with dolphins;

deck height, 16 feet; 48 acres open storage; 230,000 square feet covered storage; forklifts to 9 tons; receipt and shipment of conventional general cargo, paper rolls, lumber, plywood, supplies, and equipment; owned and operated by Georgia Steamship Co., subsidiary of Georgia-Pacific Corp.

Supplies

- (155) All kinds of marine supplies and provisions are available at Savannah. Large vessels are usually bunkered at berth in the harbor from barges. Freshwater is available at most of the berths.

Repairs

- (156) There are two major marine repair facilities at Savannah that can make all types of hull, engine, electrical, and electronic repairs to oceangoing vessels. Both facilities are on the southwest side of the river, about 200 feet and 0.85 mile above the Eugene Talmadge Memorial Bridge, respectively. A graving dock, 540 feet long, 73 feet wide, and 20 feet over the keel blocks at mean low water, is at the more northerly facility; cranes up to 50 tons are available here. The other facility has a 180-foot marine railway; cranes to 60 tons are available here. Machine, electronic, electrical, sheet metal, and welding repair shops are off the waterfront at Savannah. Floating cranes up to 75 tons are available.

Communications

- (157) Savannah has excellent rail, water, highway, and air transportation facilities. Two railroads, the Seaboard System Railroad and the Central of Georgia Railroad, a subsidiary of the Southern Railway operate out of the city. There is regular scheduled steamship service to all parts of the world, and considerable shipping coastwise and along the Intracoastal Waterway. Two major airlines, several bus lines, and numerous truck lines serve Savannah. The city has highway connections with Interstate Routes 16 and 95, and with U.S. Routes 17, 17A, and 80.

Small-craft facilities

- (158) Water and electricity are available at the Municipal Dock, the only small-craft facility at Savannah. The dockmaster can be contacted at City Hall. The nearest place where gasoline, diesel fuel, and other services can be obtained is on the Intracoastal Waterway south of Savannah at Thunderbolt, or at Isle of Hope. (See chapter 12 for details.)

Charts 11514, 11515

(159) The Savannah River above Savannah is navigable to the city of **Augusta**, 172 miles (198 statute miles) above the mouth. A Federal project provides for a 9-foot channel over a width of 90 feet from near U.S. Route 17 highway bridge, 18.8 miles (21.6 statute miles) above the mouth, to Augusta. (See Notice to Mariners and latest editions of the charts for controlling depths.) Daybeacons mark some of the shoal and critical spots in the river, but the best guide for the mariner is the use of the chart to carry the best water. The river is swift and tortuous; daybeacons are sometimes carried away. Numerous foul areas exist near the shore, and floating debris is a constant danger to navigation. Local knowledge is advised.

(160) The freshet variation above the normal pool level of the **New Savannah Bluff Lock and Dam**, 162.7 miles (187.2 statute miles) above the mouth, is about 13 feet ordinarily, with an extreme of 34 feet. The lock is 360 feet long, 56 feet wide, and has a depth over the lower miter sill of 10 feet. The depth over the upper miter sill at normal pool level is 13½ feet; the vertical lift is 15 feet. Anyone desiring lockage must contact the lock operator at least 24 hours in advance at the New Savannah Bluff Lock and Dam Office, 706-798-4644, or the James B. Messerly Wastewater Treatment Plant, 706-793-1691. Calls to either location should be made between 0800 and 1630, Monday through Friday, except on designated holidays for City of Augusta offices. The lock will be operated seven days a week between the hours of 0800 and sunset on appointment. There is no navigation lock in the dam about 4 miles above Augusta.

Bridges

(161) Between U.S. Route 17 highway bridge and the lock and dam, the limiting clearances of the drawbridges are 7 feet, and 27 feet for the fixed bridges. Between the lock and the head of navigation the limiting drawbridge clearances are 12 feet and the fixed bridges 26 feet at normal pool level. The bridgetender of the Seaboard System Railroad bridge at Clyo, about 53 miles above the mouth, monitors VHF-FM channel 16 and works on channel 13; call sign, WKB-679. (See **117.1 through 117.59, 117.371, and 117.937**, chapter 2, for drawbridge regulations.) Overhead power cables with clearances of 76 feet and 53 feet cross the river 169.7 miles (195.3 statute miles) and 174.8 miles (201.1 statute miles) above the mouth, respectively.

(162) There are numerous landings between Savannah and Augusta without wharves or rail connections. At New Savannah Bluff Lock, fuel, supplies, and services can be arranged for by telephone. Fuel, supplies, and services are available at Augusta.

(163) A city wharf, a Georgia State barge terminal, and an oil terminal, are at Augusta.

(164) The barge terminal has a depth of 9 feet alongside and a transit shed with 40,000 square feet of storage space. Modern freight handling equipment up to 10-ton lifting capacity is available, and the terminal is served by rail and truck connections.

(165) The traffic on the river above Savannah is mainly barges carrying petroleum products.